

Listing of Claims:

Cancel claims 1 to 37 and claims 43 to 59, without prejudice.

This listing of claims will replace all prior versions and listings of claims in the application:

1. to 37. (currently canceled)

38. (currently amended) ~~Assembly~~ An apparatus for making a web of paper or board containing calcium carbonate, ~~the assembly comprising:~~

a means (12-15) for supporting a web (11) being formed ; and

a means (1-7, 21-25) for forming calcium carbonate at least on the a surface of said web (11), characterized in that said means for forming calcium carbonate comprise at least comprising means (22) for feeding calcium hydroxide into contact with the surface of said web (11), and a chamber (22) via through which said web (11) is adapted to travel and into which chamber is passed fed carbon dioxide containing gas in order to react so that the carbon dioxide reacts with the calcium hydroxide so as to form calcium carbonate.

39. (currently amended) ~~Assembly according to~~ The apparatus of claim 38, ~~characterized in that wherein~~ said means for feeding calcium hydroxide ~~into contact with the surface of said web (11) comprise at least~~ comprises a means (1-7, 21-23) for applying slaked lime on the surface of said web (11) and means (21) for reacting said slaked lime with water in order to form calcium hydroxide.

40. (currently amended) ~~Assembly according to~~ The apparatus of claim 38, ~~characterized in that wherein~~ said means for feeding calcium hydroxide ~~on the surface of said web (11) comprise~~ comprises gas-atomizing liquid jet nozzles in through which calcium hydroxide solution is sprayed via the nozzle jet orifice and carbon-dioxide-containing gas is are discharged via the atomizing orifices of the nozzle, whereby the in such a way that a reaction between said two components calcium hydroxide solution and the carbon-dioxide-containing gas forms calcium carbonate.

41. (currently amended) ~~Assembly according to~~ The apparatus of claim 38 39,
~~characterized in that wherein~~ said means for feeding slaked lime on the surface of said web (11)
~~comprise comprises:~~

a means (1, 2, 3, 21) for feeding mineral-based materials or other furnish required in the
making of a paper or board web or a nonwoven product onto the surface of a web (11) travelling
on support means; ;

at least one connection (16) for applying a first an electrical potential to said web-
supporting means (12-15) thus forming to form a first electrode ; ;

at least one second electrode (22) disposed at a distance from a surface of said web-
supporting means (15) forming said first electrode ; ; and

a high-voltage supply (23) for elevating the voltage to enable formation of a potential
difference between said first electrode (15) and said at least one second electrode (22) so high
that as to establish a corona discharge in the vicinity of said second higher potential electrode
(22) between said at least one second electrode and said web-supporting means forming said first
electrode, said discharge being capable of causing an ion blast from said second higher potential
electrode (22) to said first lower potential electrode (15), whereby said ion blast transports the
sufficient to transport particulate raw material existing in the space between said potentials (15,
22) onto electrodes toward said web formation substrate (11) web running on said web-
supporting means (15) and assures the adherence of the raw material to the substrate (11) to
contact and adhere to said web.

42. (currently amended) ~~Assembly according to~~ The apparatus of claim 41,
~~characterized by further comprising:~~

an ion-blast chamber (21) via through which the moving web (11) being treated is
adapted to pass and into whose interior within which said at least on one second electrode (22) is
disposed ; ; and,

a means (3) for keeping said treatment particulate raw material of microscopic particles
in a continuous turbulent motion at least within the interior of said ion-blast chamber.

43. to 59. (currently canceled)